

2025

Trp Ala Ile Gly Ala Ser Leu Val Lys Pro Gly Glu Lys Val Val Ser
 405 410 415
 Val Ser Gly Asp Gly Gly Phe Leu Phe Ser Ala Met Glu Leu Glu Thr
 420 425 430
 Ala Val Arg Leu Lys Ala Pro Ile Val His Ile Val Trp Asn Asp Ser
 435 440 445
 Thr Tyr Asp Met Val His Phe Gln Gln Leu Lys Lys Tyr Asn Arg Thr
 450 455 460
 Ser Ala Val Asp Phe Gly Asn Ile Asp Ile Val Lys Tyr Ala Glu Ser
 465 470 475 480
 Phe Gly Ala Thr Ala Leu Arg Val Glu Ser Pro Asp Gln Leu Ala Asp
 485 490 495
 Val Leu Arg Gln Gly Met Asn Ala Glu Gly Pro Val Ile Ile Asp Val
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 Pro Val Asp Tyr Ser Asp Asn Ile Asn Leu Ala Ser Asp Lys Leu Pro
 515 520 525
 Lys Glu Phe Gly Glu Leu Met Lys Thr Lys Ala Leu
 530 535 540

<210> 88
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ribosome
 binding site

<220>
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 <222> 14-20
 <223> n = a, c, g, or t

<400> 88
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23

<210> 89
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: PanC
 C terminus

<400> 89
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<210> 90

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<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PanC
C terminus

<400> 90
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<210> 91
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PanC
C terminus

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<210> 92
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Recombinant
pAN336 plasmid

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ttaagttggg taacgccagg gttttccag tcacgacgtt gtaaaacgac ggccagtga 180
ttgtaatacg actcactata gggcgaattg ggcccgacgt cgcattgcacc aggcttctca 240
ggcgctgact tagaaaacct cttgaatgaa gctgcgcttg tagcggctcg tcaaaacaag 300
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cacaccgtta tcggtctcgt tttagatgag gcagatatgg ttcataaagt aacgattgtt 480
cctcggggcc aggctggcgg ttatgtgttt atgtgcgcaa gagaagaccg ttatttccaa 540
acaaagccgg agctgcttga taaaattgtc ggctcttgg gcggacgtgt tgctgaagag 600
attatcttcg gtgaagtcag cacaggggag cacaatgact tccagcgtgc gacgaatatt 660
gcaagacgaa tggttacaga attcggatatg tcagaaaaac tgggaccgtt gcaatttgga 720
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